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	Application No.	Applicant(s)			
	10/645,734	SHEPPARD ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Taylor Victor Oh	1625			
		<u> </u>			
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. <b>THIS</b>		
1. This communication is responsive to 8/09/05.					
2.  The allowed claim(s) is/are <u>15-16, 19-21, and 23-31 ,renum</u>	nbered as claims 1-14.				
3. $\boxtimes$ The drawings filed on <u>21 August 2003</u> are accepted by the	Examiner.				
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority un</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this national stage application from the					
International Bureau (PCT Rule 17.2(a)).		g			
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply of ENT of this application.	complying with the re	quirements		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.					
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.					
(a) including changes required by the Notice of Draftspers		948) attached			
1) hereto or 2) to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of			
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawing he header according to 37 CFR 1.121(c	ngs in the front (not the	back) of		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
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Attachment(s)			•		
1. Notice of References Cited (PTO-892)	5. Notice of Informal Page 1		D-152)		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	<ol> <li>Interview Summary Paper No./Mail Date</li> </ol>				
3. Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date 8/9/05 & 8/29/05	8), 7. Examiner's Amendr	e nent/Comment			
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	nt of Reasons for Allo	wance		
of Biological Material	9.  Other				
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## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/09/05 has been entered.

## Reasons of Allowance

## The Status of Claims

Claims 15-16, 19-21, and 23-31 are pending.

Claims 15-16, 19-21, and 23-31 are allowed.

- I. The following is an examiner's statement of reasons for allowance:
  - The close references for the current invention are Scott et al (U.S. 4,158,738) and Zeitlin et al (U.S. 5,095,146).

Scott et al teaches a process of producing terephthalic acid by oxidation of para xylene in the following steps of:

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a. feeding a mixture of p-xylene, a lower monocarboxylic acid solvent, and water

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in the presence of cobalt and manganese, and bromine into an oxidation reactor at

210° C in the presence of oxygen;

b. removing the product as a slurry from the oxidizer;

c. feeding the slurry of the terephthalic acid mixture to two additional

crystallizers where the product is cooled to 105 °C;

d. purifying the slurry of the terephthalic acid by filter.

Zeitlin et al teaches a process of obtaining terephthalic acid with impurities of 150 ppm

p-toluic acid content by crystallization using flash evaporation of solvent in 3 to 6 stirred

crystallization zones.

The instant invention, however, differs the prior art in that none of the prior art teach

that after the removal of the impurities from a crude carboxylic acid slurry by the solid-liquid

displacement zone, the slurry is subjected to the oxidation and further treated with the solid-

liquid separator to remove impurities at a high temperature of between 110 and 200° C so as to

produce purified carboxylic acid composition; furthermore, Zeitlin et al teaches the process of

obtaining pure terephthalic acid by crystallization using flash evaporation of solvent unlike the

claimed invention; therefore, the prior art processes are completely different from the claimed

invention.

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Therefore, the claimed invention would not have been obvious to the person with an ordinary skill in the art because the combined processes by the prior art would not be led to arrive at the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee.

Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning the communication after allowance such as sending all postallowance correspondence should be directed to "Box Issue Fee" or faxed directly to PUBS at 703-305-8755. This will expedite the process of these papers.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Cecilia J. Tsang

Supervisory Patent Examiner Technology Center 1600